Appendix. Classified List of Hosts and Parasites[1]

This list is compiled chiefly from the data given in the preceding papers. However, published and unpublished records of Spelaeorhynchidae (bat mites) and Polyctenidae (bat bugs) have been added, though these groups were not treated in the volume. Common names of hosts have also been added.

Most contributors did not give subspecies identifications of hosts, either because they did not have this information, or because they mistakenly considered it unimportant. Thus, in compiling the list, one could not usually determine the subspecific identity of a particular host. Accordingly, for practical reasons, most hosts, excepting bats, are listed by species only. The subspecies identifications of most of the host bats are known and are given in the list. Subspecies names are also given for a few bird hosts, for which the contributor had originally used subspecies names as species names.

Mr. Emmet R. Blake, Chicago Natural History Museum, advised on the use of some common and scientific names of birds, as did Dr. Charles O. Handley, Jr., Smithsonian Institution, on some common names of mammals, and Mr. Hymen Marx, Chicago Natural History Museum, on names of reptiles and amphibians. Otherwise, Hall and Kelson was followed for common names of mammals, Handley (this volume, pp. 735–795) for scientific names of Mammals and Eisenmann (1955) for common names of birds.

Authors of the new species listed are: *Amblyopinus* (Coleopterg: Staphylinidae), A. Barrera; chigger mites (Trombiculidae), J. M. Brennan and C. E. Yunker; Dermanyssidae, except *Hirstionyssus*, R. W. Strandtmann and C. E. Yunker, and of *Hirstionyssus*, C. E. Yunker and F. J. Radovsky; fleas (Siphonaptera), V. J. Tipton and E. Méndez; Laelaptinae, V. J. Tipton; Nycteribiidae, L. R. Guimarães; Streblidae, R. L. Wenzel.

---

[1] Compiled by Rupert L. Wenzel and Vernon J. Tipton, Editors, and Christina Johnson Fowler, Editorial Assistant.

Abbreviations

AN	Anoplura (sucking lice)	N	Nymph
CO	*Amblyopinus* (rove beetles)	NY	Nycteribiidae (batflies)
DE	Dermanyssidae (mites)	PO	Polyctenidae (bat bugs)
HI	Hippoboscidae (louse flies)	SI	Siphonaptera (fleas)
IX	Ixodoidea (ticks)	SP	Spinturnicidae (bat mites)
L	Larva	SPE	Spelaeorhynchidae (bat mites)
LA	Laelaptinae (laelaptid mites)	ST	Streblidae (batflies)
MA	Mallophaga (biting lice)	TR	Trombiculidae (chigger mites)

Classified List of Hosts and Parasites

Class AMPHIBIA

Order SALIENTIA
Family Bufonidae

Bufo marinus (Linnaeus)
Giant Toad
IX: *Amblyomma dissimile* Koch

Class REPTILIA

Order TESTUDINATA
Family Testudinidae

Geoemyda annulata (Gray)
Brown Ground Turtle
IX: *Amblyomma sabanerae* Stoll

Geoemyda funeria (Cope)
Striped-bellied Ground Turtle
IX: *Amblyomma sabanerae* Stoll
" sp., N, L

Pseudemys scripta (Schoepff)
Pond Slider
IX: *Amblyomma sabanerae* Stoll
" *dissimile* Koch

Family Kinosternidae

Kinosternon sp.
IX: *Amblyomma sabanerae* Stoll

Order SQUAMATA
Suborder Sauria
Family Iguanidae

Anolis sp.
Anole
TR: *Eutrombicula alfreddugesi* (Oudemans)

Basiliscus basiliscus (Linnaeus)
American Basilisk
IX: *Amblyomma* sp., L

Iguana iguana (Linnaeus)
Common Iguana
IX: *Amblyomma dissimile* Koch
" *sabanerae* Stoll

Sceloporus sp.
Spiny Lizard
TR: *Eutrombicula alfreddugesi* (Oudemans)
Pseudoschoengastia bulbifera Brennan

Family Teiidae

Ameiva ameiva (Linnaeus)
IX: *Amblyomma dissimile* Koch
" sp., N, L

Ameiva bifrontata Cope
DE: *Draconyssus belgicae* n.sp.
TR: *Eutrombicula alfreddugesi* (Oudemans)
" *goeldii* (Oudemans)

Ameiva festiva (Lichtenstein)
TR: *Eurombicula goeldii* (Oudemans)

Ameiva undulata (Wiegmann)
TR: *Eutrombicula alfreddugesi* (Oudemans)
" *goeldii* (Oudemans)

Ameiva sp.
DE: *Draconyssus belgicae* n.sp.

Lizards, probably **Ameiva** spp.
Amblyomma sp., N, L

Suborder Serpentes
Family Boidae

Constrictor constrictor Linnaeus
IX: *Amblyomma dissimile* Koch

Epicrates sp.
IX: *Amblyomma* sp., N, L

Family Colubridae

Chironius carinatus (Linnaeus)
IX: *Amblyomma dissimile* Koch
Oxybelis sp.
Vine Snake
IX: *Amblyomma* sp., N
TR: *Eutrombicula alfreddugesi* (Oudemans)
Pseustes poecilonotus (Günther)
IX: *Amblyomma dissimile* Koch
TR: *Eutrombicula alfreddugesi* (Oudemans)
" *goeldii* (Oudemans)
Spilotes pullatus (Linnaeus)
IX: *Amblyomma dissimile* Koch
TR: *Eutrombicula alfreddugesi* (Oudemans)
Thalerophis richardi (Bory St. Vincent)
South American Green Tree Snake
IX: *Amblyomma* sp., L

Family Viperidae

Bothrops atrox (Linnaeus)
Fer-de-lance
IX: *Amblyomma dissimile* Koch
Lachesis muta (Linnaeus)
Bushmaster
IX: *Amblyomma dissimile* Koch

Class AVES

Order TINAMIFORMES
Family Tinamidae

Crypturellus soui (Hermann)
Little Tinamou
IX: *Amblyomma* sp., L
Crypturellus soui panamensis (Carriker)
Little Tinamou
HI: *Microlynchia crypturelli* J. Bequaert
Ornithoica vicina (Walker)
Tinamou
IX: *Ixodes brunneus* Koch

Order PELECANIFORMES
Family Pelecanidae

Pelecanus occidentalis californicus Ridgeway
Brown Pelican
HI: *Olfersia sordida* Bigot

Family Phalacrocoracidae

Phalacrocorax olivaceus (Humboldt)
Olivaceous or Neotropic Cormorant
HI: *Olfersia sordida* Bigot

Family Anhingidae

Anhinga anhinga (Linnaeus)
Anhinga
TR: *Blankaartia sinnamaryi* (Floch & Fauran)

Family Fregatidae

Fregata sp.
Frigatebird
HI: *Olfersia spinifera* (Leach)

Order CICONIIFORMES
Family Ardeidae

Casmerodius albus (Linnaeus)
Common Egret
HI: *Ornithoica confluenta* (Say)
Leucophoyx t. thula (Molina)
Snowy Egret
HI: *Olfersia sordida* Bigot
Nycticorax nycticorax (Linnaeus)
Black-crowned Night Heron
TR: *Blankaartia marui* n.sp.
Nyctanassa violacea (Linnaeus)
Yellow-crowned Night Heron
TR: *Blankaartia wetmorei* n.sp.

Family Cochleariidae

Cochlearius cochlearius (Linnaeus)
Boat-billed Heron
IX: *Amblyomma dissimile* Koch
HI: *Lynchia albipennis* (Say)

Order FALCONIFORMES
Family Cathartidae

Sarcoramphus papa (Linnaeus)
King Vulture
HI: *Olfersia bisulcata* Macquart
Coragyps a. atratus (Bechstein)
Black Vulture
IX: *Amblyomma oblongoguttatum* Koch
HI: *Olfersia bisulcata* Macquart
Cathartes a. aura (Linnaeus)
Turkey Vulture
HI: *Olfersia bisulcata* Macquart

Family Accipitridae

Leptodon cayanensis (Latham)
(= *Odontriorchis palliatus*)
Gray-headed Kite
HI: *Ornithoctona fusciventris* (Wiedemann)

Buteo magnirostris (Gmelin)
Roadside Hawk
IX: *Amblyomma cajennense* (Fabricius)

Leucopternis albicollis costaricensis Sclater
White Hawk
HI: *Lynchia angustifrons* (van der Wulp)
" *wolcotti* (Swenk)

Buteogallus anthracinus (Lichtenstein)
Common Black Hawk
HI: *Lynchia nigra* (Perty)

Hypomorphnus urubitinga (Gmelin)
Great Black Hawk
TR: *Eutromicula batatas* (Linnaeus)

Spizaetus tyrannus (Wied)
Black Hawk-Eagle
IX: *Amblyomma* sp., N

Hawk
HI: *Lynchia wolcotti* (Swenk)

Family Falconidae

Daptrius americanus (Boddaert)
Red-throated Caracara
HI: *Ornithoctona erythrocephala* (Leach)

Caracara plancus (Miller)
Crested Caracara
TR: *Eutrombicula batatas* (Linnaeus)

Falco s. sparverius (Linnaeus)
American Sparrow Hawk or Kestrel
HI: *Lynchia angustifrons* (van der Wulp)

Order Galliformes
Family Cracidae

Crax rubra Linnaeus
Great Curassow
IX: *Amblyomma oblongoguttatum* Koch
" sp., L

Penelope purpurascens Wagler
Crested Guan
IX: *Amblyomma* sp., L

Family Phasianidae

Odontophorus erythrops Gould
Rufous-fronted Wood Quail
TR: *Eutrombicula alfreddugesi* (Oudemans)
Odontacarus fieldi Brennan & Jones
Trombicula dunni Ewing

Gallus gallus (Linnaeus)
Domestic Fowl
DE: *Ornithonyssus bursa* (Berlese)
IX: *Amblyomma* sp., N, L
TR: *Eutrombicula batatas* (Linnaeus)

Chicken coops
IX: *Argas persicus* (Oken)

Order Gruiformes
Family Rallidae

Aramides cajanea (P.L.S. Müller)
Gray-necked Wood Rail
TR: *Blankaartia sinnamaryi* (Floch & Fauran)

Family Eurypygidae

Eurypyga helias (Pallas)
Sunbittern
HI: *Ornithoctona erythrocephala* (Leach)

Order Charadriiformes
Family Laridae

Sterna fuscata Linnaeus
Sooty Tern
HI: *Olfersia aenescens* C. G. Thomson

Order Columbiformes
Family Columbidae

Columba livea Gmelin
Rock Dove or Domestic Pigeon
HI: *Pseudolynchia canariensis* (Macquart)

Columba speciosa Gmelin
Scaled Pigeon
HI: *Stilbometopa ramphastonis* Ferris

Columbigallina talpacoti (Temminck)
Ruddy Ground Dove
DE: *Pellonyssus marui* n.sp.

Leptotila cassinii (Lawrence)
Gray-chested Dove
TR: *Trombicula dunni* Ewing

Order Cuculiformes
Family Cuculidae

Crotophaga ani Linnaeus
Smooth-billed Ani
TR: *Eutrombicula batatas* (Linnaeus)

Neomorphus geoffroyi salvini Sclater
Rufous-vented Ground Cuckoo
IX: *Argas persicus* (Oken), N
TR: *Eutrombicula goeldii* (Oudemans)
Odontacarus fieldi Brennan & Jones
Trombicula dunni Ewing

Order STRIGIFORMES
Family Strigidae

Otus guatemalae (Sharpe)
Vermiculated Screech Owl
TR: *Blankaartia sinnamaryi* (Floch & Fauran)
HI: *Lynchia wolcotti* (Swenk)

Bubo virginianus (Gmelin)
Great Horned Owl
HI: *Lynchia americana* (Leach)

Glaucidium jardinii (Bonaparte)
Andean Pygmy Owl
SI: *Ceratophyllus altus* n. sp.

Ciccaba virgata (Cassin)
Mottled Owl
TR: *Blankaartia sinnamaryi* (Floch & Fauran)

Ciccaba virgata centralis Griscom
Mottled Owl
HI: *Lynchia wolcotti* (Swenk)

Order CAPRIMULGIFORMES
Family Caprimulgidae

Chordeiles acutipennis (Hermann)
Lesser Nighthawk
HI: *Pseudolynchia brunnea* (Latreille)

Nyctidromus albicollis (Gmelin)
Pauraque
TR: *Eutrombicula batatas* (Linnaeus)
Blankaartia sinnamaryi (Floch & Fauran)

Caprimulgus rufus Boddaert
Rufous Nightjar, "Capacho"
TR: *Blankaartia sinnamaryi* (Floch & Fauran)
HI: *Pseudolynchia brunnea* (Latreille)

Order APODIFORMES
Family Trochilidae

Phaethornis guy (Lesson)
Green Hermit
DE: *Pellonyssus gorgasi* n.sp.

Order TROGONIFORMES
Family Trogonidae

Pharomachrus mocinno de la Llave
Quetzal
HI: *Ornithoctona fusciventris* (Wiedemann)
" *nitens* (Bigot)

Trogon massena Gould
Slaty-tailed Trogon
TR: *Blankaartia sinnamaryi* (Floch & Fauran)

Trogon collaris puella Gould
Bar-tailed Trogon
HI: *Ornithoctona nitens* (Bigot)

Trogon sp.
HI: *Ornithoctona nitens* (Bigot)

Order CORACIIFORMES
Family Alcedinidae

Chloroceryle americana (Gmelin)
Green Kingfisher
IX: *Amblyomma* sp., L

Family Momotidae

Electron platyrhynchum (Leadbeater)
Broad-billed Motmot
TR: *Neoschoengastia electron* n. sp.

Baryphthengus ruficapillus (Viellot)
Rufous Motmot
TR: *Blankaartia sinnamaryi* (Floch & Fauran)

Momotus momota (Linnaeus)
Blue-crowned Motmot
TR: *Eutrombicula goeldii* (Oudemans)

Order PICIFORMES
Family Bucconidae

Malacoptila panamensis Lafresnaye
White-whiskered Puffin
IX: *Amblyomma longirostre* (Koch), N
TR: *Eutrombicula goeldii* (Oudemans)

Monasa morphoeus (Hahn and Kuster)
White-fronted Nunbird
TR: *Blankaartia sinnamaryi* (Floch & Fauran)

Monasa morphoeus grandior Sclater & Salvin
White-fronted Nunbird
HI: *Stilbometopa rhamphastonis* Ferris

Species undetermined
TR: *Blankaartia sinnamaryi* (Floch & Fauran)

Family Capitonidae

Capito maculicoronatus Lawrence
Spot-crowned Barbet
IX: *Amblyomma* sp., N

Family Ramphastidae

Aulacorhynchus prasinus (Gould)
Emerald Toucanet
DE: *Ornithonyssus sylviarium* Canestrini & Fanzago

Ramphastos sulfuratus brevicarinatus Gould
Keel-billed Toucan
HI: *Lynchia angustifrons* (van der Wulp)

Ramphastos swainsonii Gould
Chestnut-mandibled Toucan
HI: *Lynchia angustifrons* (van der Wulp)
Ornithoica vicina (Walker)
Stilbometopa ramphastonis Ferris

Ramphastos sp.
IX: *Amblyomma* sp., N

Order Passeriformes

Family Dendrocolaptidae

Dendrocincla homochroa (Sclater)
Ruddy Woodcreeper
HI: *Blankaartia sinnamaryi* (Floch & Fauran)

Xiphorhynchus guttatus (Lichtenstein)
Buff-throated Woodcreeper
TR: *Blankaartia sinnamaryi* (Floch & Fauran)

Xiphorhynchus sp.
IX: *Amblyomma longirostre* (Koch), N

Family Furnariidae

Sclerurus guatemalensis (Hartlaub)
Scaly-throated Leafscraper
TR: *Blankaartia sinnamaryi* (Floch & Fauran)

Family Formicariidae

Cymbilaimus lineatus
Fasciated Antshrike
IX: *Amblyomma longirostre* (Koch), N

Taraba major (Vieillot)
Great Antshrike
TR: *Eutrombicula alfreddugesi* (Oudemans)
Blankaartia sinnamaryi (Floch & Fauran)

Thamnophilus nigriceps Sclater
Black Antshrike
IX: *Amblyomma* sp., N

Dysithamnus mentalis (Temminck)
Plain Antvireo
TR: *Blankaartia sinnamaryi* (Floch & Fauran)

Dysithamnus puncticeps Salvin
Spot-crowned Antvireo
HI: *Ornithoctona fusciventris* (Wiedemann)

Cercomacra tyrannina rufiventris (Lawrence)
Dusky Antbird
HI: *Ornithoctona fusciventris* (Wiedemann)

Family Cotingidae

Rhytipterna holerythra (Sclater & Salvin)
Rufous Mourner
IX: *Amblyomma* sp., N
HI: *Ornithoctona fusciventris* (Wiedemann)

Querula purpurata (Müller)
Purple-throated Fruitcrow
IX: *Amblyomma longirostre* (Koch), N

Family Tyrannidae

Myiodynastes hemichrysus (Cabanis)
Golden-bellied Flycatcher
HI: *Ornithoica vicina* (Walker)

Myiozetetes sp.
TR: *Eutrombicula batatas* (Linnaeus)
Blankaartia sinnamaryi (Floch & Fauran)

Myiarchus ferox (Gmelin)
Short-crested Flycatcher
TR: *Blankaartia sinnamaryi* (Floch & Fauran)

Empidonax flavescens Lawrence
Yellowish Flycatcher
HI: *Ornithoctona fusciventris* (Wiedemann)

Family Hirundinidae

Progne chalybea (Gmelin)
Gray-breasted Martin
DE: *Pellonyssus marui* n.sp.

Notiochelidon cyanoleuca (Vieillot)
Blue-and-White Swallow
SI: *Dasypsyllus lasius venezuelensis* (I. Fox & Anduze)

Family Troglodytidae

Thryothorus atrogularis Salvin
Black-throated Wren
HI: *Ornithoctona fusciventris* (Wiedemann)

Troglodytes musculus inquietus Baird
Southern House Wren
HI: *Ornithoctona nitens* (Bigot)

Cyphorhinus aradus phaeocephalus Sclater
Song Wren
TR: *Eutrombicula goeldii* (Oudemans)

Henicorhina leucophrys collina Bangs
Gray-breasted Wood-Wren
HI: *Ornithoctona fusciventris* (Wiedemann)

Wren
HI: *Ornithoctona fusciventris* (Wiedemann)

Family Mimidae

Dumetella carolinensis (Linnaeus)
Common Catbird
TR: *Blankaartia sinnamaryi* (Floch & Fauran)

Family Turdidae

Turdus albicollis cnephosus (Bangs)
(= *Turdis tristis cnephosa*)
White-throated Robin
HI: *Ornithoctona fusciventris* (Wiedemann)

Turdus grayi Bonaparte
Clay-colored Robin
DE: *Pellonyssus marui* n.sp.

Turdus plebejus Cabanis
Mountain Robin
HI: *Ornithoctona fusciventris* (Wiedemann)

Hylocichla ustulata (Nuttall)
Swainson's or Olive-backed Thrush
TR: *Blankaartia sinnamaryi* (Floch & Fauran)

Catharus mexicanus (Bonaparte)
Black-headed Nightingale Thrush
TR: *Eutrombicula batatas* (Linnaeus)
Blankaartia sinnamaryi (Floch & Fauran)

Family Sylviidae

Microbates cinereiventris (Sclater)
Half-collared Gnatwren
TR: *Trombicula dunni* Ewing
Blankaartia sinnamaryi (Floch & Fauran)

Family Ptilogonatidae

Ptilogonys caudatus Cabanis
Long-tailed Silky Flycatcher
SI: *Dasypsyllus gallinulae perpinnatus* (Baker)

Family Vireonidae

Vireo flavoviridis (Cassin)
Yellow-green Vireo
DE: *Pellonyssus marui* n.sp.

Family Parulidae

Oporornis formosus (Wilson)
Kentucky Warbler
TR: *Blankaartia sinnamaryi* (Floch & Fauran)

Geothlypis semiflava Sclater
Olive-crowned Yellowthroat
TR: *Blankaartia sinnamaryi* (Floch & Fauran)

"Yellow water thrush"
HI: *Ornithoctona fusciventris* (Wiedemann)

Family Icteridae

Cacicus uropygialis microrhynchus (Sclater & Salvin)
Scarlet-rumped Cacique
IX: *Amblyomma longirostre* (Koch), N

Cassidix mexicanus (Gmelin)
Boat-tailed Grackle
DE: *Pellonyssus marui* n.sp.

Icterus mesomelas (Wagler)
Yellow-tailed Oriole
TR: *Blankaartia sinnamaryi* (Floch & Fauran)

Icterus chrysater (Lesson)
Yellow-backed Oriole
IX: *Amblyomma longirostre* (Koch), N

Family Thraupidae

Ramphocelus passerinii Bonaparte
Scarlet-rumped Tanager
IX: *Amblyomma* sp., N

Piranga rubra (Linnaeus)
Summer Tanager
TR: *Blankaartia sinnamaryi* (Floch & Fauran)

Piranga bidentata sanguinolenta (Lafresnaye)
Flame-colored Tanager
HI: *Ornithoctona fusciventris* (Wiedemann)

Tachyphonus rufus (Boddaert)
White-lined Tanager
IX: *Amblyomma* sp., N

Eucometis penicillata (Spix)
Gray-headed Tanager
IX: *Amblyomma* sp., L

Family Fringillidae

Saltator maximus (P.L.S. Müller)
Buff-Throated Saltator
IX: *Amblyomma longirostre* (Koch), N

Saltator albicollis Vieillot
Streaked Saltator
IX: *Amblyomma longirostre* (Koch), N

Tiaris olivacea pusilla Swainson
(= *Eutheia o. pusilla*)
Yellow-faced Grassquit
HI: *Ornithoctona fusciventris* (Wiedemann)

Sporophila aurita corvina (Sclater)
Variable Seedeater
IX: *Amblyomma* sp., N
TR: *Blankaartia sinnamaryi* (Floch & Fauran)

Pselliophorus tibialis (Lawrence)
Yellow-thighed Finch
HI: *Ornithoctona fusciventris* (Wiedemann)

Atlapetes gutturalis (Lafresnaye)
Yellow-throated Brush Finch
HI: *Ornithoctona fusciventris* (Wiedemann)

Arremonops conirostris (Bonaparte)
Green-backed Sparrow
IX: *Amblyomma ovale* Koch
TR: *Blankaartia arremonops* (Brennan & Jones)

Miscellaneous

No host or undet.
HI: *Olfersia fossulata* Macquart
Ornithoctona fusciventris (Wiedemann)
Stilbometopa ramphastonis Ferris

Bird nests
SI: *Dasypsyllus gallinulae perpinnatus* (Baker)
Dasypsyllus lasius venezuelensis (I. Fox & Anduze)

Class MAMMALIA

Order MARSUPIALIA

Family Didelphidae

Caluromys derbianus (Waterhouse)
(= *Philander laniger* Goldman)
Wooly Opossum
IX: *Amblyomma geayi* Neumann
" sp., N, L

Monodelphis adusta (Thomas)
Short-tailed Opossum
IX: *Ixodes venezuelensis* Kohls

Marmosa mexicana Merriam
Mexican Mouse-Opossum
TR: *Eutrombicula goeldii* (Oudemans)
Pseudoschoengastia bulbifera Brennan

Marmosa robinsoni Bangs
South American Mouse-Opossum
LA: *Tur uniscutatus* (Turk)
DE: *Ornithonyssus wernecki* (Fonseca)
IX: *Amblyomma sabanerae* Stoll
Ixodes luciae Senevet, N
TR: *Eutrombicula alfreddugesi* (Oudemans)
" *goeldii* (Oudemans)
Leptotrombidium panamensis (Ewing)
Pseudoschoengastia bulbifera Brennan
Trombicula dunni Ewing
" *manueli* Brennan & Jones
SI: *Adoratopsylla intermedia copha* (Jordan)
Polygenis roberti beebei (I. Fox)
" *klagesi* (Rothschild)

Philander opossum (Linnaeus)
Four-eyed Opossum
LA: *Haemolaelaps glasgowi* (Ewing)
Tur uniscutatus (Turk)
DE: *Ornithonyssus wernecki* (Fonseca)
IX: *Amblyomma auricularium* (Conil)
" *geayi* Neumann
" sp., N, L
Ixodes luciae Senevet
TR: *Crotiscus desdentatus* (Boshell & Kerr)
Euschoengastia nunezi (Hoffmann)

Eutrombicula alfreddugesi (Oudemans)
" *goeldii* (Oudemans)
Pseudoschoengastia bulbifera Brennan
Trombicula dunni Ewing
" *keenani* Brennan & Jones
SI: *Adoratopsylla intermedia copha* (Jordan)
Polygenis roberti beebei (I. Fox)
Rhopalopsyllus australis tupinus Jordan & Rothschild
Rhopalopsyllus cacicus saevus Jordan & Rothschild

Metachirus nudicaudatus (E. Geoffroy St.-Hilaire)
Brown Opossum
LA: *Haemolaelaps glasgowi* (Ewing)
DE: *Ornithonyssus wernecki* (Fonseca)
IX: *Ixodes loricatus* Neumann
" sp., N
TR: *Eutrombicula goeldii* (Oudemans)
Myxacarus oscillatus n. sp.
Trombicula dunni Ewing
SI: *Adoratopsylla intermedia copha* (Jordan)
Polygenis roberti beebei (I. Fox)
" *dunni* (Jordan & Rothschild)
Rhopalopsyllus cacicus saevus Jordan & Rothschild

Didelphis marsupialis Linnaeus
Opossum, "Zorra"
LA: *Gigantolaelaps inca* Fonseca
" *oudemansi* Fonseca
Haemolaelaps glasgowi (Ewing)
Laelaps pilifer n. sp.
Tur uniscutatus (Turk)
DE: *Ornithonyssus wernecki* (Fonseca)
IX: *Amblyomma auricularium* (Conil)
" *cajennense* (Fabricius)
" *geayi* Neumann
" *varium* Koch
" sp., N, L
Ixodes luciae Senevet
" *boliviensis* Neumann
" *affinis* Neumann
" sp., N, L
TR: *Ascoschoengastia dyscrita* Brennan & Jones
Crotiscus desdentatus (Boshell & Kerr)
Euschoengastia megastyrax Brennan & Jones
Euschoengastia nunezi (Hoffmann)
" *tragulata* Brennan & Jones
Eutrombicula alfreddugesi (Oudemans)
" *goeldii* (Oudemans)
Hoffmannina handleyi Brennan & Jones
Leptotrombidium panamensis (Ewing)
Odontacarus fieldi Brennan & Jones
Pseudoschoengastia bulbifera Brennan
Sasacarus furmani (Hoffmann)
Trombicula dunni Ewing
" *keenani* Brennan & Jones
" *longicalcar* Brennan & Jones
" *manueli* Brennan & Jones
SI: *Adoratopsylla intermedia copha* (Jordan)
Ctenocephalides f. felis (Bouché)
Hoplopsyllus glacialis exoticus Jordan & Rothschild
Juxtapulex echidnophagoides Wagner
Pleochaetis d. dolens Jordan & Rothschild
Polygenis klagesi (Rothschild)
" *roberti beebei* (I. Fox)
Rhopalopsyllus australis tupinus Jordan & Rothschild
Rhopalopsyllus cacicus saevus Jordan & Rothschild
Rhopalopsyllus lugubris cryptoctenes (Enderlein)

Chironectes minimus (Zimmermann)
Water Opossum
IX: *Amblyomma oblongoguttatum* Koch
TR: *Doloisia* (*Kymocta*) *chironectes* Yunker & Brennan
SI: *Rhopalopsyllus australis tupinus* Jordan & Rothschild

Order INSECTIVORA
Family Soricidae

Cryptotis nigrescens (J. A. Allen)
Blackish Small-eared Shrew
IX: ? *Dermacentor* sp., L
? *Ixodes* sp., L

Cryptotis sp.
Small-eared Shrew
TR: *Pseudoschoengastia bulbifera* Brennan

Order CHIROPTERA
Suborder Microchiroptera
Superfamily Emballonuroidea
Family Emballonuridae

Saccopteryx bilineata Temminck
Greater White-lined Bat
TR: *Beamerella acutascuta* Brennan
Euschoengastia desmodus Brennan & Dalmat
Trombicula saccopteryx Brennan & Jones
ST: *Strebla alvarezi* n.sp.

Peropteryx macrotis (Wagner)
Lesser Doglike Bat
IX: *Ornithodoros azteci* Matheson, L
TR: *Tecomatlana sandovali* Hoffmann

Family Noctilionidae

Noctilio labialis labialis (Kerr)
Southern or Little Bulldog Bat
IX: *Ornithodoros hasei* (Schulze), N, L
ST: *Noctiliostrebla maai* n.sp.
Paradyschiria parvuloides n.sp.

Noctilio leporinus mexicanus Goldman
Mexican Bulldog Bat
SP: *Periglischrus aitkeni* n.sp.
IX: *Ornithodoros hasei* (Schulze), L
ST: *Neotrichobius stenopterus* n.g., n.sp.
Noctiliostrebla traubi n.sp.
Paradyschiria lineata Kessel

Dirias sp. (**N. labialis**)
ST: *Trichobius joblingi* n.sp.

Superfamily Phyllostomoidea
Family Phyllostomidae
Subfamily Chilonycterinae

Pteronotus parnellii fuscus J. A. Allen
(= *Chilonycteris rubiginosa fusca*)
Parnell's Mustached Bat
SP: *Periglischrus species* "D"
" *elongatus* n.sp.
IX: *Ornithodoros viguerasi* Cooley & Kohls, L
TR: *Alexfainia chilonycteris* Yunker & Jones
Trombicula anophthalma Hoffmann
Vergrandia galei Yunker & Jones
ST: *Nycterophilia parnelli* n.sp.
Speiseria ambigua Kessel
Strebla altmani n.sp.
Trichobius sparsus Jobling
" *yunkeri* n.sp.
" *joblingi* n.sp.
" *costalimai* Guimarães

Pteronotus psilotis (Dobson)
(= *Chilonycteris psilotis* Hall & Kelson)
Dobson's Mustached Bat
IX: *Amblyomma* sp., L
Antricola mexicanus Hoffmann, L
TR: *Alexfainia munozi* n.sp.
Perates insessus Brennan & Dalmat
Trombicula monops Brennan & Jones
ST: *Nycterophilia fairchildi* n.sp.
Trichobius johnsonae n.sp.

Pteronotus suapurensis (J. A. Allen)
Suapuré Naked-backed Bat
SP: *Periglischrus elongatus* n.sp.
TR: *Trombicula tibbettsi* Brennan & White
ST: *Nycterophilia fairchildi* n.sp.
Trichobius johnsonae n.sp.
" *yunkeri* n.sp.

Pteronotus sp.
IX: *Ornithodoros viguerasi* Cooley & Kohls, L

Subfamily Phyllostominae

Micronycteris megalotis microtis Miller
Brazilian Small-eared Bat
SP: *Periglischrus micronycteridis* n.sp.
TR: *Beamerella acutascuta* Brennan
Euschoengastia desmodus Brennan & Dalmat
Perissopalla precaria (Brennan & Dalmat)
ST: *Strebla alvarezi* n.sp.
Trichobius joblingi n.sp.
" *keenani* n.sp.

Micronycteris minuta (Gervais)
SP: *Periglischrus micronycteridis* n.sp.
ST: *Trichobius dugesioides* n.sp.

Micronycteris nicefori Sanborn
ST: *Parastrebla handleyi* n.g., n.sp.
Strebla alvarezi n.sp.

Trichobius joblingi n.sp.
" *keenani* n.sp.

Micronycteris sylvestris Thomas
Brown Small-eared Bat
ST: *Strebla alvarezi* n.sp.

Lonchorhina a. aurita Tomes
Tomes' Long-eared Bat
IX: *Ornithodoros azteci* Matheson, L
ST: *Speiseria ambigua* Kessel
Strebla altmani n.sp.
" *carolliae* n.sp.
Trichobius dugesioides n.sp.
" *joblingi* n.sp.
" *macrophylli* n.sp.
" *yunkeri* n.sp.

Macrophyllum macrophyllum (Schinz)
Long-legged Bat
SP: *Periglischrus* species "G"
ST: *Strebla altmani* n.sp.
" *carolliae* n.sp.
Trichobius joblingi n.sp.
" *macrophylli* n.sp.

Tonatia bidens (Spix)
Round-eared Bat
ST: *Strebla galindoi* n.sp.
Trichobius bequaerti n.sp.

Tonatia minuta Goodwin
(= *T. nicaraguae* Hall & Kelson)
Pigmy Round-eared Bat
ST: *Mastoptera minuta* (Costa Lima)
Pseudostrebla greenwelli n.sp.
Strebla hoogstraali n.sp.
Trichobius mendezi n.sp.

Tonatia s. silvicola (D'Orbigny)
D'Orbigny's Round-eared Bat
(= *T. amblyotis* Goldman, *T. sylvicola* Hall & Kelson)
IX: *Ornithodoros hasei* (Schulze), L
ST: *Mastoptera minuta* (Costa Lima)
Pseudostrebla ribeiroi Costa Lima
Strebla kohlsi n.sp.
Trichobius dybasi n.sp.

Tonatia sp.
ST: *Trichobius dugesioides* n.sp.

Lonchorhina or **Tonatia** sp.
NY: *Basilia tiptoni* n.sp.

Bat "like Tonatia"
NY: *Basilia tiptoni* n.sp.

Mimon crenulatum keenani Handley
NY: *Basilia tiptoni* n.sp.

Phyllostomus d. discolor Wagner
ST: *Aspidoptera busckii* Coquillet
Megistopoda aranea (Coquillet)
Strebla hertigi n.sp.
" *mirabilis* (Waterhouse)
Trichobiodes perspicillatus (Pessôa & Galvão)
Trichobius costalimai Guimarães
" *longipes* (Rudow)

Phyllostomus hastatus panamensis J. A. Allen
Spear-nosed Bat
SP: *Periglischrus tiptoni* n.sp.
" *inflatiseta* n.sp.
TR: *Blankaartia sinnamaryi* (Floch & Fauran)
Trombicula carmenae Brennan & Jones
ST: *Mastoptera guimaraesi* n.sp.
Speiseria ambigua Kessel
Strebla carolliae n.sp.
" *hertigi* n.sp.
" *mirabilis* (Waterhouse)
Trichobius joblingi n.sp.
" *longipes* (Rudow)
" *parasiticus* Gervais
" *yunkeri* n.sp.

Phyllostomus sp.
ST: *Mastoptera guimaraesi* n.sp.
" *minuta* (Costa Lima)
Trichobius longipes (Rudow)

Mixed collection of
Phyllostomus and **Pteronotus** spp.
ST: *Trichobius longipes* (Rudow)

Phylloderma s. stenops Peters
Spear-nosed Bat
(= *P. septentrionalis* Hall & Kelson)
ST: *Strebla christinae* n.sp.

Trachops c. cirrhosus (Spix)
Fringe-lipped Bat
SP: *Periglischrus tiptoni* n.sp.
" *vargasi* Hoffmann
IX: *Ornithodoros brodyi* Matheson, L
" *hasei* (Schulze), L
ST: *Speiseria ambigua* Kessel
Strebla altmani n.sp.
" *carolliae* n.sp.
" (?) *mirabilis* (Waterhouse)
Trichobius dugesii Townsend
" *dugesioides* n.sp.
" *joblingi* n.sp.

Chrotopterus auritus (Peters)
Peters' False Vampire Bat
ST: *Trichobius dugesioides* n.sp.

Vampyrum spectrum (Linnaeus)
Linnaeus' False Vampire Bat
TR: *Trombicula longicalcar* Brennan & Jones
" *vesperuginis* Brennan & Jones

Subfamily Glossophaginae

Glossophaga soricina leachii (Gray)
Pallas' Long-tongued Bat
- DE: New genus, n.sp. no. 1
- SP: *Periglischrus caligus* Kolenati
- SPE: *Spelaeorhynchus* sp.
- TR: *Euschoengastia desmodus* Brennan & Dalmat
  Trombicula vesperuginis Brennan & Jones
- ST: *Eldunnia breviceps* Curran
  Speiseria ambigua Kessel
  Strebla carolliae n.sp.
  Trichobius dugesii Townsend
  " *joblingi* n.sp.
  " *uniformis* Curran

Lonchophylla robusta Miller
Panama Long-tongued Bat
- SP: *Periglischrus* species "K"
- ST: *Anastrebla nycteridis* n.sp.
  Eldunnia breviceps Curran
  Speiseria ambigua Kessel
  Strebla carolliae n.sp.
  Trichobius joblingi n.sp.
  " *johnsonae* n.sp.
  " *lonchophyllae* n.sp.

Lionycteris spurrelli Thomas
- ST: *Trichobius lionycteridis* n.sp.

Anoura cultrata Handley
- SP: *Periglischrus vargasi* Hoffmann
- ST: *Anastrebla mattadeni* n.sp.
  Exastinion clovisi (Pessôa & Guimarães)

Anoura geoffroyi lasiopyga Peters
Geoffroy's Tailless Bat
- SP: *Periglischrus vargasi* Hoffman
- ST: *Anastrebla mattadeni* n.sp.
  " *modestini* n.sp.
  Exastinion clovisi (Pessôa & Guimarães)

Subfamily Carolliinae

Carollia castanea H. Allen
Allen's Short-tailed Bat
- DE: *Radfordiella* n.sp. no. 2
- TR: *Euschoengastia desmodus* Brennan & Dalmat
- ST: *Speiseria ambigua* Kessel
  Strebla carolliae n.sp.
  Trichobius joblingi n.sp.

Carollia perspicillata azteca Saussure
Seba's Short-tailed Bat
- DE: *Radfordiella* n.sp. no. 2
  New genus, n.sp. no. 3
- SP: *Periglischrus* sp.
- SPE: *Spelaeorhynchus* sp.
- IX: *Amblyomma tapirellum* Dunn
  Ornithodoros brodyi Matheson, L
- TR: *Alexfainia chilonycteris* Yunker & Jones
  Beamerella acutascuta Brennan
  Euschoengastia megastyrax Brennan & Jones
  Trombicula vesperuginis Brennan & Jones
- ST: *Aspidoptera busckii* Coquillet
  Mastoptera guimaraesi n.sp.
  Megistopoda aranea (Coquillet)
  Metelasmus pseudopterus Coquillet
  Nycterophilia parnelli n.sp.
  Paratrichobius dunni (Curran)
  Speiseria ambigua Kessel
  Strebla altmani n.sp.
  " *carolliae* n.sp.
  " *mirabilis* (Waterhouse)
  " *vespertilionis* (Fabricius)
  Trichobius costalimai Guimarães
  " *dugesii* Townsend
  " *dugesioides* n.sp.
  " *joblingi* n.sp.
  " *johnsonae* n.sp.
  " *longipes* (Rudow)
  " *macrophylli* n.sp.
  " *sparsus* Kessel
  " *urodermae* n.sp.
  " *yunkeri* n.sp.

Mixed collection of
Carollia p. azteca and
Lonchorhina a. aurita
- DE: *Radfordiella* n.sp. no. 2

Mixed collection of
Carollia p. azteca and
Glossophaga s. leachii
- ST: *Speiseria ambigua* Kessel
  Trichobius dugesii Townsend
  " *dugesioides* n.sp.
  " *joblingi* n.sp.

Carollia subrufa Hahn
(= *C. castanea* Hall & Kelson, part.)
- SPE: *Spelaeorhynchus* sp.
- TR: *Euschoengastia colombiae* (Boshell & Kerr)
  Euschoengastia desmodus (Brennan & Dalmat)
- ST: *Speiseria ambigua* Kessel
  Strebla carolliae n.sp.
  Trichobius dugesioides n.sp.
  " *joblingi* n.sp.

Mixed collection of
Carollia sp. and
Natalus s. mexicanus
- ST: *Trichobius dugesioides* n.sp.

Subfamily Sturnirinae

Sturnira lilium parvidens Goldman
Yellow-shouldered Bat
SP: *Periglischrus aitkeni* n.sp.
ST: *Aspidoptera delatorrei* n.sp.
Megistopoda proxima (Séguy)
Paradyschiria parvuloides n.sp.
Trichobioides perspicillatus (Pessôa & Galvão)

Sturnira ludovici Anthony
Anthony's Bat
DE: New genus, n.sp. no. 2
SP: *Periglischrus aitkeni* n.sp.
TR: *Pseudoschoengastia bulbifera* Brennan
Trombicula carmenae Brennan & Jones
" *soucouyanti* n.sp.
ST: *Megistopoda theodori* n.sp.
Trichobius brennani n.sp.
" *yunkeri* n.sp.

Sturnira sp.
SP: *Periglischrus aitkeni* n.sp.

Subfamily Stenoderminae

Uroderma bilobatum Peters
Tent-making Bat
SP: *Periglischrus iheringi* Oudemans
IX: *Ornithodoros hasei* (Schulze), L
ST: *Neotrichobius stenopterus* n.g., n.sp.
Paratrichobius dunni (Curran)
Trichobius costalimai Guimarães
" *joblingi* n.sp.
" *keenani* n.sp.
" *urodermae* n.sp.

Vampyrops helleri Peters
(= *Platyrrhinus helleri* Hall & Kelson)
Heller's Broad-nosed Bat
SP: *Periglischrus iheringi* Oudemans
IX: *Amblyomma cajennense* (Fabricius)
" sp., N
Ornithodoros hasei (Schulze), L
ST: *Paratrichobius* sp. B

Vampyrops vittatus (Peters)
(= *Platyrrhinus vittatus* Hall & Kelson)
White-lined Bat
DE: *Ichoronyssus* (group II) n.sp.
SP: *Periglischrus iheringi* Oudemans
ST: *Paratrichobius* sp.
Speiseria ambigua Kessel
Trichobius vampyropis n.sp.

Vampyrodes caraccioli major G. M. Allen
(= *V. major* Goldman; *V. major* Hall & Kelson)
SP: *Periglischrus iheringi* Oudemans
ST: *Strebla vespertilionis* (Fabricius)

Vampyressa nymphaea Thomas
ST: *Aspidoptera busckii* Coquillet
Metelasmus pseudopterus Coquillet

Vampyressa pusilla (Wagner)
Little Yellow-eared Bat
(= *V. minuta* Goldman, *V. thyone* Hall & Kelson)
SP: *Periglischrus iheringi* Oudemans
TR: *Trombicula dunni* Ewing
ST: *Neotrichobius stenopterus* n.g., n.sp.

Vampyressa sp.
ST: *Paratrichobius dunni* Curran

Chiroderma salvini Dobson
Salvin's White-lined Bat
SP: *Periglischrus iheringi* Oudemans
IX: *Amblyomma* sp., N
ST: *Paratrichobius salvini* n.sp.

Chiroderma villosum jesupi J. A. Allen
(= *C. isthmicum* Goldman; *C. isthmicum* Hall & Kelson)
ST: *Aspidoptera busckii* Coquillet
Paratrichobius sp. A
Trichobius joblingi n.sp.

Artibeus aztecus Andersen
Fruit-eating Bat
(= *A. cinereus* Hall and Kelson, part.)
ST: *Paratrichobius* sp.

Artibeus cinereus (Gervais)
Fruit-eating bat
(= *A. watsoni* Goldman, part., *A. cinereus* Hall & Kelson, part.)
SP: *Periglischrus iheringi* Oudemans
ST: *Neotrichobius stenopterus* n.g., n.sp.
Paratrichobius lowei n.sp.

Artibeus j. jamaicensis Leach
Jamaican Fruit-eating Bat
(= *A. planirostris* Goldman)
DE: *Ichoronyssus kochi* Fonseca
SP: *Periglischrus iheringi* Oudemans
SPE: *Spelaeorhynchus* sp.
NY: *Basilia wenzeli* Guimarães & D'Andretta
ST: *Aspidoptera busckii* Coquillet
Megistopoda aranea (Coquillet)
Metelasmus pseudopterus Coquillet
Neotrichobius stenopterus n.g., n.sp.
Paratrichobius longicrus (M. Ribeiro)

Strebla carolliae n.sp.
" *vespertilionis* (Fabricius)
" *hertigi* n.sp.
Trichobius joblingi n.sp.
" *longipes* (Rudow)
" *uniformis* Curran

Artibeus lituratus palmarum J. A. Allen & Chapman
Big Fruit-eating Bat
SP: *Periglischrus iheringi* Oudemans
ST: *Aspidoptera busckii* Coquillet
Megistopoda aranea (Coquillet)
Metelasmus pseudopterus Coquillet
Paratrichobius longicrus (M. Ribeiro)
Speiseria ambigua Kessel
Trichobius costalimai Guimarães
" *joblingi* n.sp.
" *lonchophyllae* n.sp.
" *vampyropis* n.sp.
" *yunkeri* n.sp.

Artibeus toltecus (Saussure)
Fruit-eating Bat
(= *A. watsoni* Goldman, part., *A. cinereus* Hall & Kelson, part.)
DE: *Ichoronyssus kochi* Fonseca
TR: *Leptotrombidium panamensis* (Ewing)
ST: *Paratrichobius* sp.

Artibeus sp.
IX: *Ixodes* sp., L

Enchisthenes hartii (Thomas)
Little Fruit-eating Bat
DE: *Periglischrus iheringi* Oudemans
ST: *Paratrichobius sanchezi* n.sp.

Phyllostomid bat
DE: New genus, n. sp. no. 1

Family Desmodidae

Desmodus rotundus murinus Wagner
Vampire Bat
DE: *Radfordiella* n.sp. no. 1
SP: *Periglischrus iheringi* Oudemans
" *desmodi* n.sp.
IX: *Ornithodoros azteci* Matheson, L
" *brodyi* Matheson, L
ST: *Megistopoda aranea* (Coquillet)
Speiseria ambigua Kessel
Strebla vespertilionis (Fabricius)
" *hertigi* n.sp.
Trichobius costalimai Guimarães
" *dugesioides* n.sp.
" *joblingi* n.sp.
" *parasiticus* Gervais
" *uniformis* Curran
Trichobioides perspicillatus (Pessôa & Galvão)

Diaemus youngii cypselinus Thomas
ST: *Strebla diaemi* n.sp.
Trichobius parasiticus Gervais

"Vampire bats"
ST: *Trichobius parasitus* Gervais

Superfamily Vespertilionoidea
Family Natalidae

Natalus stramineus mexicanus Miller
Mexican Funnel-eared Bat
SP: *Periglischrus natali* n.sp.
ST: *Nycterophilia natali* n.sp.
Speiseria ambigua Kessel
Strebla carolliae n.sp.
Trichobius dugesioides n.sp.
" *galei* n.sp.
" *joblingi* n.sp.

Natalus sp.
ST: *Trichobius galei* n.sp.

Family Vespertilionidae
Subfamily Vespertilioninae

Myotis albescens (E. Geoffroy St.-Hilaire)
Paraguay Myotis
SP: *Spinturnix americanus* (Banks)
NY: *Basilia dunni* Curran

Myotis chiloensis (Waterhouse)
DE: *Ichoronyssus crosbyi* (Ewing & Stover)
" (group III) n.sp. no. 1
SP: *Periglischrus tiptoni* n.sp.
Spinturnix americanus (Banks)
ST: *Anatrichobius scorzai* n.g., n.sp.
Joblingia schmidti Dybas & Wenzel

Myotis n. nigricans (Schinz)
Black Myotis
DE: *Ichoronyssus robustipes* (Ewing)
" (group III) n.sp. no. 1
SP: *Spinturnix americanus* (Banks)
" sp.
IX: *Antricola mexicanus* Hoffmann, L
Dermacentor halli McIntosh, N
TR: *Trombicula monops* Brennan & Jones
SI: *Sternopsylla distincta speciosa* Johnson
NY: *Basilia anceps* Guimarães & D'Andretta
Basilia myotis Curran
" *dunni* Curran

ST: *Anatrichobius scorzai* n.g., n.sp.
Joblingia schmidti Dybas & Wenzel

Mixed lots of
Myotis nigricans and
Myotis chiloensis
DE: *Ichoronyssus crosbyi* (Ewing & Stover)
SP: *Paraspinturnix globosus* Rudnick
Spinturnix americanus (Banks)
SI: *Sternopsylla distincta speciosa* Johnson
ST: *Anatrichobius scorzai* n.g., n.sp.
Joblingia schmidti Dybas & Wenzel

Myotis simus riparius Handley
SP: *Spinturnix americanus* (Banks)
NY: *Basilia anceps* Guimarães & D'Andretta

Myotis sp.
TR: *Trombicula soucouyanti* n.sp.
ST: *Anatrichobius scorzai* n.g., n.sp.
Joblingia schmidti Dybas & Wenzel

Eptesicus brasiliensis propinquus (Peters)
Brazilian Brown Bat
NY: *Basilia wenzeli* Guimarães & D'Andretta

Rhogeessa tumida H. Allen
Little Yellow Bat
SP: *Spinturnix subacuminatus* n.sp.

Lasiurus borealis frantzii (Peters)
Red Bat
NY: *Basilia ferruginea* M. Ribeiro

Lasiurus castaneus Handley
NY: *Basilia handleyi* n.sp.

Lasiurus egregius Peters
ST: *Strebla carolliae* n.sp.
" *vespertilionis* (Fabricius)

Family Molossidae

Molossops p. planirostris (Peters)
PO: *Hesperoctenes fumarius* (Westwood)

Tadarida b. brasiliensis (I. Geoffroy St.-Hilaire)
Brazilian Free-tailed Bat
DE: *Ichoronyssus robustipes* (Ewing)
SP: *Spinturnix* sp.
SI: *Sternopsylla d. speciosa* Johnson

Tadarida yucatanica (Miller)
Yucatan Free-tailed Bat
SI: *Hormopsylla kyriophila* n.sp.
Ptilopsylla dunni Kohls
Rhynchopsyllus megastigmata Traub & Gammons
Sternopsylla d. speciosa Johnson

Molossus bondae J. A. Allen
Bonda Mastiff Bat
ST: *Trichobius dunni* n.sp.

Molossus coibensis J. A. Allen
DE: *Ichoronyssus venezolanus* (Vitzthum)
SI: *Hormopsylla kyriophila* n.sp.
Ptilopsylla dunni Kohls
PO: *Hesperoctenes* sp.

Molossus sp.
IX: *Ornithodoros hasei* (Schulze), L

"Eumops bonariensis nanus"
(? *E. amazonicus* Handley)
PO: *Hesperoctenes* sp.

"Eumops glaucinus" (Wagner)
(? *E. auripendulus* Shaw)
PO: *Hesperoctenes angustatus* Ferris & Usinger

Molossid bat
DE: *Ichoronyssus haematophagus* (Fonseca)

Miscellaneous

Bat
DE: *Ichoronyssus venezolanus* (Vitzthum)
Steatonyssus occidentalis (Ewing)
SPE: *Spelaeorynchus latus* Banks
TR: *Alexfainia munozi* n.sp.
Euschoengastia desmodus Brennan & Dalmat
Euschoengastia megastyrax Brennan & Jones
Eutrombicula goeldii (Oudemans)
Tecomatlana sandovali Hoffmann
Trombicula longicalcar Brennan & Jones
" *monops* Brennan & Jones
" *vesperuginis* Brennan & Jones

Bat guano from roosting place of
Myotis nigricans, M. chiloensis, and
Tadarida brasiliensis
SI: *Sternopsylla distincta speciosa* Johnson
ST: *Joblingia schmidti* Dybas & Wenzel

Bat guano from roosting place of
Tadarida yucatanica
SI: *Hormopsylla kyriophila* n.sp.
Ptilopsylla dunni Kohls
Rhynchopsyllus megastigmata Traub & Gammons

Bat guano from roosting place of
Pteronotus psilotis
IX: *Antricola mexicanus* Hoffman

Order Primates
Family Cebidae

Aotus trivirgatus (Humboldt)
Night Monkey
TR: *Eutrombicula alfreddugesi* (Oudemans)
" *goeldii* (Oudemans)

Alouatta villosa (Gray)
Howler Monkey
AN: *Pediculus atelophilus* Ewing

Cebus capucinus (Linnaeus)
Capuchin
AN: *Pediculus atelophilus* Ewing
" *chapini* Ewing

Ateles fusciceps Gray
Black Spider Monkey
(=*A. dariensis* Goldman)
AN: *Pediculus atelophilus* Ewing

Ateles geoffroyi Kuhl
Geoffroy's Spider Monkey
AN: *Pediculus atelophilus* Ewing

Family Callithricidae

Saguinus geoffroyi (Pucheran)
Geoffroy's Tamarin
TR: *Eutrombicula alfreddugesi* (Oudemans)
" *goeldii* (Oudemans)
Pseudoschoengastia bulbifera Brennan

Family Hominidae

Homo sapiens Linnaeus
IX: *Amblyomma tapirellum* Dunn
" *cajennense* (Fabricius)
" *oblongoguttatum* Koch
" *ovale* Koch
" *naponense* (Packard)
" *parvum* Aragão
" *sabanerae* Stoll
" sp., N
Dermacentor latus Cooley
" *imitans* Warburton
Ixodes boliviensis Neumann
Rhipicephalus sanguineus (Latreille)
TR: *Eutrombicula batatas* (Linnaeus)
AN: *Pediculus humanus* Linnaeus
Phthirus pubis (Linnaeus)
SI: *Ctenocephalides f. felis* (Bouché)
Juxtapulex echidnophagoides Wagner
Pulex simulans Baker
Rhopalopsyllus australis tupinus Jordan & Rothschild
Rhopalopsyllus l. lugubris Jordan & Rothschild
Rhopalopsyllus l. cryptoctenes (Enderlein)

Order Edentata
Family Myrmecophagidae

Myrmecophaga tridactyla Linnaeus
Giant Anteater
IX: *Amblyomma calcaratum* Neumann
" *nodosum* Neumann
" *oblongoguttatum* Koch
" *pictum* Neumann
" *tapirellum* Dunn
" sp., N

Tamandua tetradactyla (Linnaeus)
Tamandua, Common Anteater
IX: *Amblyomma auricularium* (Conil)
" *cajennense* (Fabricius)
" *calcaratum* Neumann
" *naponense* (Packard)
" *nodosum* Neumann
" *oblongoguttatum* Koch
" *parvum* Aragão
" sp., N, L
SI: *Rhopalopsyllus australis tupinus* Jordan & Rothschild

Cyclopes didactylus (Linnaeus)
Two-toed Anteater,
Pygmy or Silky Anteater
IX: *Amblyomma* sp., N, L

Family Bradypodidae

Bradypus infuscatus Wagler
Gray Three-toed Sloth, "Perico lijero"
IX: *Amblyomma geayi* Neumann
" *varium* Koch
" sp., N, L
TR: *Trombicula pecari* Brennan & Jones
" *dunni* Ewing

Choloepus hoffmanni Peters
Two-toed Sloth, "Perico lijero"
IX: *Amblyomma calcaratum* Neumann
" *geayi* Neumann
" *oblongoguttatum* Koch
" *varium* Koch

Family Dasypodidae

Cabassous centralis (Miller)
Central American Five-toed Armadillo
IX: *Amblyomma auricularium* (Conil)
TR: *Blix cabassoi* n.sp.

Dasypus novemcinctus Linnaeus
Nine-banded Armadillo
IX: *Amblyomma auricularium* (Conil)
" *cajennense* (Fabricius)
" *oblongoguttatum* Koch
" *ovale* Koch
" sp., N, L
Ixodes sp., L
TR: *Aniatrus bifax* Brennan & Jones
Eutrombicula goeldii (Oudemans)
Myxacarus oscillatus n.sp.
Pseudoschoengastia apista n.sp.
" *dasypi* n.sp.
Trombicula dunni Ewing
Vargatula hispida n. sp.
SI: *Juxtapulex echidnophagoides* Wagner
Rhopalopsyllus cacicus saevus Jordan & Rothschild

Miscellaneous

Animal burrows (probably Armadillo)
SI: *Rhopalopsyllus cacicus saevus* Jordan & Rothschild

Order Lagomorpha
Family Leporidae

Sylvilagus brasiliensis (Linnaeus)
Forest Rabbit
IX: *Amblyomma* sp., N
Dermacentor sp., N
Haemaphysalis leporispalustris (Packard)
Ixodes pomerantzi Kohls
Ornithodoros puertoricensis Fox, L
TR: *Trombicula dunni* Ewing
Eutrombicula alfreddugesi (Oudemans)
" *goeldii* (Oudemans)
SI: *Ctenocephalides f. felis* (Bouché)
Hoplopsyllus glacialis exoticus Jordan & Rothschild
Rhopalopsyllus australis tupinus Jordan & Rothschild

Oryctolagus cuniculus Linnaeus
Domestic Rabbit
IX: *Rhipicephalus sanguineus* (Latreille)

Order Rodentia
Suborder Sciuromorpha
Family Sciuridae

Sciurus granatensis Humboldt
Tropical Red Squirrel, "Ardilla"
LA: *Haemolaelaps glasgowi* (Ewing)
DE: *Hirstionyssus keenani* n.sp.
IX: *Amblyomma* sp., N, L
Ixodes tiptoni Kohls and Clifford
" sp., probably *tiptoni*, L
TR: *Eutrombicula alfreddugesi* (Oudemans)
" *goeldii* (Oudemans)
Odontacarus fieldi Brennan & Jones
Trombicula dicrura Brennan & Jones
" *dunni* Ewing
" *keenani* Brennan & Jones
" *manueli* Brennan & Jones
AN: *Enderleinellus* sp. (*longiceps* group)
Neohaematopinus sp. (*sciurinus* group)
SI: *Dasypsyllus gallinulae perpinnatus* (Baker)
Juxtapulex echidnophagoides Wagner
Kohlsia g. graphis (Rothschild)
" *tiptoni* Mendez & Altman
" *traubi* Tipton & Mendez
Pleochaetis d. dolens Jordan & Rothschild
Polygenis dunni (Jordan & Rothschild)
Polygenis roberti beebei (I. Fox)
Rhopalopsyllus australis tupinus Jordan & Rothschild
Rhopalopsyllus sp.
Strepsylla dalmati Traub & Barrera

Sciurus granatensis chiriquensis Bangs
DE: *Hirstionyssus keenani* n.sp.
Sciurus variegatoides Ogilby
Variegated Squirrel
DE: *Hirstionyssus keenani* n.sp.
AN: *Neohaemotopinus* sp. (*sciurinus* group)
Microsciurus alfari (J. A. Allen)
Alfaro's Pygmy Squirrel
TR: *Eutrombicula goeldii* (Oudemans)
Trombicula dunni Ewing

Family Geomyidae

Macrogeomys cavator Bangs
Chiriqui Pocket Gopher
MA: *Geomydoecus* n.sp.

Family Heteromyidae

Liomys adspersus
Panama Spiny Pocket Mouse
LA: *Haemolaelaps glasgowi* (Ewing)
Steptolaelaps heteromys (Fox)
DE: *Hirstionyssus microchelae* n.sp.
Ornithonyssus bacoti (Hirst)
IX: *Amblyomma* sp., L
TR: *Ascoschoengastia dyscrita* Brennan & Jones
Crotonasis fissa n.sp.
Eutrombicula goeldii (Oudemans)
Leptotrombidium panamensis (Ewing)
Odontacarus fieldi Brennan & Jones
Polylopadium kramisi Brennan & Jones
Pseudoschoengastia bulbifera Brennan
" *zona* Brennan
Trombicula liomys Brennan & Jones
Vanidicus tricosus Brennan & Jones
AN: *Fahrenholzia fairchildi* Johnson
SI: *Ctenocephalides f. felis* (Bouché)
Polygenis dunni (Jordan & Rothschild)
" *klagesi* (Rothschild)
Heteromys australis Thomas
Southern Spiny Pocket Mouse
LA: *Steptolaelaps heteromys* (Fox)
Haemolaelaps glasgowi (Ewing)
TR: *Eutrombicula goeldii* (Oudemans)
Leptotrombidium panamensis (Ewing)
Pseudoschoengastia bulbifera Brennan
Pseudoschoengastia zona Brennan
Trombicula dunni Ewing
" *keenani* Brennan & Jones
SI: *Polygenis klagesi* (Rothschild)
Heteromys desmarestianus Gray
Desmarest's Spiny Pocket Mouse
LA: *Eubrachylaelaps jamesoni* Furman
Haemolaelaps glasgowi (Ewing)
Steptolaelaps heteromys (Fox)
Tur uniscutatus (Turk)
DE: *Hirstionyssus heteromydis* n.sp.
" *lunatus* n.sp.
" *microchelae* n.sp.
" *minutus* n.sp.
" *panamensis* n.sp.
TR: *Ascoschoengastia dyscrita* Brennan & Jones
Crotiscus desdentatus (Boshell & Kerr)
Euschoengastia belgicae n.sp.
Eutrombicula alfreddugesi (Oudemans)
" *goeldii* (Oudemans)
Hoffmannina handleyi Brennan & Jones
Doloisia (Kymocta) teratarsalis Yunker & Brennan
Pseudoschoengastia bulbifera Brennan
" *finitima* n.sp.
Sasacarus furmani (Hoffmann)
Trombicula dicrura Brennan & Jones
" *dunni* Ewing
" *keenani* Brennan & Jones
Vanidicus tricosus Brennan & Jones
AN: *Fahrenholzia fairchildi* Johnson
" *hertigi* Johnson
SI: *Kohlsia traubi* Tipton & Mendez
Pleochaetis d. dolens (Jordan & Rothschild)
Polygenis roberti beebei (I. Fox)
Wenzella yunkeri n.sp.
Heteromys sp.
IX: *Amblyomma* sp., N, L
Dermacentor sp., N

Suborder Myomorpha
Family Cricetidae

Oryzomys albigularis (Tomes)
(= *O. devius* Goldman, *O devius* Hall & Kelson)

White-breasted Rice Rat
LA: *Gigantolaelaps inca* Fonseca
Laelaps thori Fonseca
TR: *Pseudoschoengastia bulbifera* Brennan
CO: *Amblyopinus emarginatus* Seevers
SI: *Kohlsia keenani* Tipton & Mendez
Pleochaetis altmani Tipton & Mendez
" *d. dolens* (Jordan & Rothschild)
Polygenis atopus Jordan & Rothschild

Oryzomys alfaroi (J. A. Allen)
Alfaro's Rice Rat
LA: *Haemolaelaps glasgowi* (Ewing)
Gigantolaelaps gilmorei Fonseca
" *inca* Fonseca
" *oudemansi* Fonseca
Laelaps castroi Fonseca
" *paulistanensis* Fonseca
TR: *Eutrombicula alfreddugesi* (Oudemans)
Pseudoschoengastia bulbifera Brennan
SI: *Kohlsia keenani* Tipton & Mendez
" *traubi* Tipton & Mendez
Pleochaetis d. dolens (Jordan & Rothschild)
Polygenis roberti beebei (I. Fox)

Oryzomys bicolor (Tomes)
LA: *Gigantolaelaps oudemansi* Fonseca
Laelaps sp.

Oryzomys bombycinus Goldman
Silky Rice Rat
LA: *Haemolaelaps glasgowi* (Ewing)
Gigantolaelaps gilmorei Fonseca
" *oudemansi* Fonseca
Laelaps pilifer n.sp.
TR: *Leptotrombidium panamensis* (Ewing)
Pseudoschoengastia bulbifera Brennan
SI: *Polygenis roberti beebei* (I. Fox)
" *klagesi* (Rothschild)

Oryzomys caliginosus (Tomes)
Dusky Rice Rat
LA: *Haemolaelaps glasgowi* (Ewing)
Gigantolaelaps gilmorei Fonseca
" *oudemansi* Fonseca
" *wolffsohni* (Oudemans)
Laelaps dearmasi Furman & Tipton
" *pilifer* n.sp.
TR: *Ascoschoengastia dyscrita* Brennan & Jones
Eutrombicula goeldii (Oudemans)
Intercutestrix tryssa (Brennan & Jones)
Leptotrombidium panamensis (Ewing)
Polylopadium confirmatum n.sp.
Pseudoschoengastia bulbifera Brennan
" *zona* Brennan
Trombicula dunni Ewing
AN: *Hoplopleura oryzomydis* Pratt & Lane
SI: *Adoratopsylla intermedia copha* (Jordan)
Polygenis roberti beebei (I. Fox)
Ctenocephalides f. felis (Bouché)
Rhopalopsyllus l. lugubris Jordan & Rothschild

Oryzomys capito (Olfers)
(= *O. talamancae* Goldman, *O. talamancae* Hall and Kelson, *O. laticeps* auct.)
LA: *Gigantolaelaps gilmorei* Fonseca
" *oudemansi* Fonseca
" *wolffsohni* (Oudemans)
Haemolaelaps glasgowi (Ewing)
Laelaps dearmasi Furman & Tipton
" *pilifer* n.sp.
" *thori* Fonseca
Mysolaelaps parvispinosus Fonseca
TR: *Ascoschoengastia dyscrita* Brennan & Jones
Euschoengastia cunctata Brennan & Jones
Eutrombicula alfreddugesi (Oudemans)
" *goeldii* (Oudemans)
Intercutestrix tryssa (Brennan & Jones)
Leptotrombidium panamensis (Ewing)
Myxacarus oscillatus n.sp.
Pseudoschoengastia abditiva Brennan
" *bulbifera* Brennan
Trombicula dunni Ewing
" *keenani* Brennan & Jones
SI: *Jellisonia* sp.

Polygenis roberti beebei (I. Fox)
" *klagesi* (Rothschild)
" *dunni* (Jordan & Rothschild)

Oryzomys fulvescens (Saussure)
Pygmy Rice Rat
LA: *Eubrachylaelaps jamesoni* Furman
Gigantolaelaps oudemansi Fonseca
" *wolffsohni* (Oudemans)
Haemolaelaps glasgowi (Ewing)
Laelaps castroi Fonseca
Mysolaelaps parvispinosus Fonseca
TR: *Trombicula caccabulus* Brennan & Jones
SI: *Kohlsia keenani* Tipton & Mendez
" *traubi* Tipton & Mendez
Pleochaetis altmani Tipton & Mendez
" *d. dolens* (Jordan & Rothschild)
Strepsylla dalmati Traub & Barrera

Oryzomys sp.
LA: *Steptolaelaps heteromys* (Fox)
TR: *Eutrombicula alfreddugesi* (Oudemans)
Pseudoschoengastia bulbifera Brennan
IX: *Amblyomma ovale* Koch
" sp., N, L
Dermacentor sp., L
Ixodes luciae Senevet
" *venezuelensis* Kohls
" sp., N, L

Nectomys alfari (J. A. Allen)
Alfaro's Water Rat
LA: *Echinolaelaps lowei* n.sp.
Gigantolaelaps gilmorei Fonseca
" *oudemansi* Fonseca
" *wolffsohni* (Oudemans)
Haemolaelaps glasgowi (Ewing)
TR: *Crotiscus desdentatus* (Boshell & Kerr)
Eutrombicula goeldii (Oudemans)
Pseudoschoengastica bulbifera Brennan
SI: *Polygenis roberti beebei* (I. Fox)

Tylomys panamensis (Gray)
Panama Climbing Rat
LA: *Haemolaelaps glasgowi* (Ewing)
Steptolaelaps heteromys (Fox)
SI: *Polygenis klagesi* (Rothschild)

Tylomys watsoni Thomas
Watson's Climbing Rat
TR: *Ascoschoengastia dyscrita* Brennan & Jones
Euschoengastia enhebra n.sp.
Intercutestrix tryssa (Brennan & Jones)
Doloisia (*Kymocta*) *teratarsalis* Yunker & Brennan
Pseudoschoengastia zona Brennan
Sasacarus furmani (Hoffmann)

Nyctomys sumichrasti (Saussure)
Sumichrast's Vesper Rat
LA: *Haemolaelaps glasgowi* (Ewing)
SI: *Pleochaetis d. dolens* (Jordan & Rothschild)

Reithrodontomys creper Bangs
Chiriqui Harvest Mouse
LA: *Eubrachylaelaps jamesoni* Furman
Haemolaelaps glasgowi (Ewing)
TR: *Hoffmannina suriana* (Hoffmann)
Trombicula dicrura Brennan & Jones
" *keenani* Brennan & Jones
CO: *Amblyopinus tiptoni* n. sp.
SI: *Jellisonia johnsonae* Tipton & Mendez
Juxtapulex echidnophagoides Wagner
Kohlsia traubi Tipton & Mendez
Pleochaetis altmani Tipton & Mendez
" *d. dolens* (Jordan & Rothschild)
Strepsylla dalmati Traub & Barrera

Reithrodontomys creper and
Reithrodontomys spp.
IX: *Amblyomma* sp., L
Dermacentor sp., N, L
Ixodes sp., N

Reithrodontomys mexicanus (Saussure)
Mexican Harvest Mouse
LA: *Haemolaelaps glasgowi* (Ewing)
TR: *Eutrombicula alfreddugesi* (Oudemans)
Hoffmannina handleyi Brennan & Jones
Trombicula caccabulus Brennan & Jones
" *dicrura* Brennan & Jones

Trombicula keenani Brennan & Jones
SI: *Jellisonia johnsonae* Tipton & Mendez
Pleochaetis altmani Tipton & Mendez
" *d. dolens* (Jordan & Rothschild)
Strepsylla dalmati Traub & Barrera

Reithrodontomys sumichrasti (Saussure)
Sumichrast's Harvest Mouse
LA: *Gigantolaelaps gilmorei* Fonseca
Haemolaelaps glasgowi (Ewing)
TR: *Hoffmannina suriana* (Hoffmann)
SI: *Jellisonia johnsonae* Tipton & Mendez
Pleochaetis altmani Tipton & Mendez
" *d. dolens* (Jordan & Rothschild)
Strepsylla dalmati Traub & Barrera

Reithrodontomys sp.
TR: *Eutrombicula batatas* (Linnaeus)
Hoffmannina handleyi Brennan & Jones
Pseudoschoengastia bulbifera Brennan
Trombicula chiriquensis Brennan & Jones
AN: *Hoplopleura hesperomydis* Osborn

Peromyscus flavidus (Bangs)
Yellow Deer Mouse
LA: *Gigantolaelaps inca* Fonseca
" *oudemansi* Fonseca
Laelaps thori Fonseca
TR: *Eutrombicula alfreddugesi* (Oudemans)
Trombicula dunni Ewing
CO: *Amblyopinus emarginatus* Seevers
SI: *Kohlsia azuerensis* n. sp.

Peromyscus n. nudipes (J. A. Allen)
Naked-footed Deer Mouse
LA: *Eubrachylaelaps jamesoni* Furman
Gigantolaelaps inca Fonseca
Haemolaelaps glasgowi (Ewing)
Laelaps castroi Fonseca
DE: *Hirstionyssus galindoi* n. sp.
TR: *Cordiseta mexicana* (Hoffmann)
Euschoengastia libertatis Brennan & Jones
" *spissa* Brennan & Jones
Eutrombicula alfreddugesi (Oudemans)
Hoffmannina handleyi Brennan & Jones
" *suriana* (Hoffmann)
Pseudoschoengastia bulbifera Brennan
Trombicula caccabulus Brennan & Jones
" *dicrura* Brennan & Jones
" *dunni* Ewing
" *keenani* Brennan & Jones
" *tiptoni* Brennan & Jones
AN: *Hoplopleura hesperomydis* Osborn
CO: *Amblyopinus tiptoni* n. sp.
SI: *Ctenocephalides f. felis* (Bouché)
Jellisonia johnsonae Tipton & Mendez
Kohlsia keenani Tipton & Mendez
" *mojica* n.sp.
" *traubi* Tipton & Mendez
Pleochaetis altmani Tipton & Mendez
" *d. dolens* (Jordan & Rothschild)
Polygenis atopus (Jordan & Rothschild)
" *roberti beebei* (I. Fox)
Strepsylla dalmati Traub & Barrera

Peromyscus sp. ? **pirrensis**
SI: *Kohlsia azuerensis*

Peromyscus sp.
IX: *Amblyomma* sp., N, L
Dermacentor sp., N, L
Haemaphysalis leporispalustris (Packard), L
Ixodes sp., N, L
TR: *Polylopadium kramisi* Brennan & Jones
Pseudoschoengastia bulbifera Brennan
Trombicula chiriquensis Brennan & Jones

Zygodontomys microtinus (Thomas)
(=*Z. cherriei* Goldman, *Z. cherriei* Hall & Kelson)
Cane Rat
LA: *Gigantolaelaps gilmorei* Fonseca
" *goyanensis* Fonseca
" *oudemansi* Fonseca
" *wolffsohni* (Oud.)

Haemolaelaps glasgowi (Ewing)
Laelaps dearmasi Furman & Tipton
DE: *Ornithonyssus bacoti* (Hirst)
IX: *Ixodes luciae* Senevet, N
" *venezuelensis* Kohls
Amblyomma ovale Koch, N
" sp., N, L
TR: *Eutrombicula alfreddugesi* (Oudemans)
" *batatas* (Linnaeus)
" *goeldii* (Oudemans)
Leptotrombidium panamensis (Ewing)
Odontacarus fieldi Brennan & Jones
Pseudoschoengastia bulbifera Brennan
AN: *Fahrenholzia hertigi* Johnson
SI: *Polygensis dunni* (Jordan & Rothschild)
" *klagesi* (Rothschild)
" *roberti beebei* (I. Fox)
Rhopalopsyllus australis tupinus J. & R.
" *l. lugubris* Jordan & Rothschild

Scotinomys teguina (Alston)
Alston's Brown Mouse
LA: *Haemolaelaps glasgowi* (Ewing)
TR: *Cordiseta mexicana* (Hoffmann)
Eutrombicula alfreddugesi (Oudemans)
Hoffmannina handleyi Brennan & Jones
Trombicula caccabulus Brennan & Jones
" *chiriquensis* Brennan & Jones
" *dicrura* Brennan & Jones
" *keenani* Brennan & Jones
AN: *Hoplopleura hesperomydis* Osborn
SI: *Jellisonia johnsonae* Tipton & Mendez
Kohlsia keenani Tipton & Mendez
Pleochaetis d. dolens (Jordan & Rothschild)
Plocopsylla scotinomi n. sp.

Scotinomys xerampelinus (Bangs)
Chiriqui Brown Mouse
LA: *Haemolaelaps glasgowi* (Ewing)
DE: *Hirstionyssus galindoi* n. sp.
IX: *Ixodes* sp., L
Dermacentor sp., L
?Amblyomma sp., L
TR: *Eutrombicula alfreddugesi* (Oudemans)
Hoffmannina suriana (Hoffmann)
Pseudoschoengastia bulbifera Brennan
Trombicula dicrura Brennan & Jones
SI: *Jellisonia johnsonae* Tipton & Mendez
Kohlsia keenani Tipton & Mendez
Pleochaetis altmani Tipton & Mendez
" *d. dolens* (Jordan & Rothschild)
Plocopsylla scotinomi n. sp.
Strepsylla dalmati Traub & Barrera

Sigmodon hispidus Say & Ord
Hispid Cotton Rat
LA: *Gigantolaelaps gilmorei* Fonseca
" *oudemansi* Fonseca
" *wolffsohni* (Oudemans)
Haemolaelaps glasgowi (Ewing)
Laelaps dearmasi Furman & Tipton
DE: *Acanthonyssus dentipes* (Strandtmann & Eads)
Ornithonyssus bacoti (Hirst)
IX: *Amblyomma auricularium* (Conil), N
" sp., N, L
?Ixodes sp., L
TR: *Ascoschoengastia dyscrita* Brennan & Jones
Crotiscus desdentatus (Boshell & Kerr)
Eutrombicula alfreddugesi (Oudemans)
" *batatas* (Linnaeus)
" *goeldii* (Oudemans)
Intercutestrix tryssa (Brennan & Jones
Leptotrombidium panamensis (Ewing)
Odontacarus fieldi Brennan & Jones
Pseudoschoengastia bulbifera Brennan
" *zona* Brennan
Trombicula dunni Ewing
MA: *Gliricola panamensis* Werneck
AN: *Hoplopleura hirsuta* Ferris
SI: *Polygenis dunni* (Jordan & Rothschild)
" *klagesi* (Rothschild)

Family Muridae

Rattus norvegicus (Berkenhout)
Norway Rat
LA: *Laelaps nuttalli* Hirst
SI: *Pulex simulans* Baker

Rattus rattus (Linnaeus)
Black Rat
LA: *Echinolaelaps echidninus* (Berlese)
Haemolaelaps glasgowi (Ewing)
Laelaps dearmasi Furman & Tipton
" *nuttalli* Hirst
DE: *Ornithonyssus bacoti* (Hirst)
TR: *Eutrombicula goeldii* (Oudemans)
AN: *Polyplax spinulosa* (Burmeister)
SI: *Xenopsylla cheopis* Rothschild

Rattus sp.
IX: *Ornithodoros puertoricensis* Fox, L

Mus musculus Linnaeus
House Mouse
SI: *Pleochaetis d. dolens* (Jordan & Rothschild)

Family Erethizontidae

Coendou mexicanus (Kerr)
Mexican Porcupine
IX: *Dermacentor halli* McIntosh
Ixodes boliviensis Neumann
" sp., N, L
TR: *Trombicula keenani* Brennan & Jones
MA: *Eutrichophilus maximus* Bedford
SI: *Ctenocephalides f. felis* (Bouché)
Juxtapulex echidnophagoides Wagner
Polygenis klagesi (Rothschild)

Coendou rothschildi Thomas
Rothschild's Porcupine
DE: *Ornithonyssus coendou* n. sp.
IX: *Amblyomma longirostre* (Koch)
" sp., N, L
Haemaphysalis juxtakochi Cooley, N
TR: *Euschoengastia tragulata* Brennan & Jones
Eutrombicula alfreddugesi (Oudemans)
" *goeldii* (Oudemans)
Leptotrombidium panamensis (Ewing)
Pseudoschoengastia mermeriza n. sp.
Speleocola secunda Brennan & Jones
Trombicula dicrura Brennan & Jones
" *longicalcar* Brennan & Jones
MA: *Eutrichophilus maximus* Bedford

Family Caviidae

Cavia porcellus (Linnaeus)
Guinea Pig (Domestic)
MA: *Gliricola ovalis* Burmeister
" *porcelli* (Schrank)
Trimenopon hispidum (Burmeister)

Family Hydrochaeridae

Hydrochaeris hydrochaeris (Linnaeus)
Capybara
IX: *Amblyomma auricularium* (Conil)
Rhipicephalus sanguineus (Latreille)
TR: *Blankaartia alleei* (Ewing)
Eutrombicula alfreddugesi (Oudemans)
" *batatas* (Linnaeus)

Family Dasyproctidae

Agouti paca (Linnaeus)
Paca, "Conejo pintado"
IX: *Amblyomma coelebs* Neumann
" *pacae* Aragão
" sp., N
Ixodes lasallei Mendez & Ortiz
" sp., N, L
TR: *Eutrombicula alfreddugesi* (Oudemans)
MA: *Macrogyropus costalimai* (Werneck)
SI: *Rhopalopsyllus australis tupinus* Jordan & Rothschild
Rhopalopsyllus cacicus saevus Jordan & Rothschild
Rhopalopsyllus l. cryptoctenes (Enderlein)
Rhopalopsyllus l. lugubris (Jordan & Rothschild)

Dasyprocta punctata Gray
Agouti, "Ñequi"
IX: *Amblyomma obongoguttatum* Koch
" *pacae* Aragaõ
" sp. N, L
Ixodes lasallei Mendez & Ortiz
" sp., N
TR: *Eutrombicula goeldii* (Oudemans)
Trombicula dasyproctae Ewing
" *dunni* Ewing

SI: *Polygenis klagesi* (Rothschild)
Rhopalopsyllus australis tupinus Jordan & Rothschild
Rhopalopsyllus cacicus saevus Jordan & Rothschild
Rhopalopsyllus l. lugubris Jordan & Rothschild

Suborder Hystricomorpha
Family Echimyidae

Proechimys semispinosus (Tomes)
Tomes' Spiny Rat
LA: *Tur uniscutatus* (Turk)
Gigantolaelaps gilmorei Fonseca
Haemolaelaps glasgowi (Ewing)
Laelaps dearmasi Furman & Tipton
" *nuttalli* Hirst
" *pilifer* n. sp.
DE: *Acanthonyssus dentipes* (Strandtmann & Eads)
Ornithonyssus bacoti (Hirst)
IX: *Amblyomma ovale* Koch, N
" sp., N, L
Haemaphysalis juxtakochi Cooley, N
Ixodes sp., N
TR: *Ascoschoengastia dyscrita* Brennan & Jones
Crotiscus desdentatus (Boshell & Kerr)
Eutrombicula alfreddugesi (Oudemans)
" *goeldii* (Oudemans)
Intercutestrix tryssa (Brennan & Jones)
Leptotrombidium panamensis (Ewing)
Myxacarus ocillatus n.sp.
Odontacarus chiapanensis (Hoffmann)
" *fieldi* Brennan & Jones
Polylopadium kramisi Brennan & Jones
Pseudoschoengastia bulbifera Brennan
Sasacarus furmani (Hoffmann)
Trombicula cribanus Brennan & Jones
" *dunni* Ewing
" *keenani* Brennan & Jones
MA: *Gliricola panamensis* Werneck
Gyropus setifer Ewing
Harrisonia uncinata Ferris
SI: *Adoratopsylla intermedia copha* (Jordan)
Polygenis dunni (Jordan & Rothschild)
" *klagesi* (Rothschild)
" *roberti beebei* (I. Fox)
Rhopalopsyllus australis tupinus Jordan & Rothschild
Rhopalopsyllus cacicus saevus Jordan & Rothschild
Rhopalopsyllus l. lugubris Jordan & Rothschild

Hoplomys gymnurus (Thomas)
Porcupine Rat
LA: *Haemolaelaps glasgowi* (Ewing)
Tur uniscutatus (Turk)
" *anomalus* n. sp.
DE: *Ornithonyssus* sp.
IX: *Amblyomma* sp., L
TR: *Ascoschoengastia dyscrita* Brennan & Jones
Crotiscus desdentatus (Boshell & Kerr)
Eutrombicula goeldii (Oudemans)
Doloisia (*Kymocta*) *teratarsalis* Yunker & Brennan
Leptotrombidium panamensis (Ewing)
Myxacarus oscillatus Brennan & Yunker
Pseudoschoengastia bulbifera Brennan
Trombicula dunni Ewing
" *keenani* Brennan & Jones
" *punctata* Boshell & Kerr
MA: *Gliricola* sp. (near *panamensis*)
Gyropus setifer Ewing
AN: *Pterophthirus audax* (Ferris)
SI: *Polygenis klagesi* (Rothschild)

Miscellaneous

Rodent nests
SI: *Jellisonia johnsonae* Tipton & Mendez
Pleochaetis d. dolens (Jordan & Rothschild)

Rat
AN: *Hoplopleura nesoryzomydis* Ferris

Mouse
TR: *Eutrombicula alfreddugesi* (Oudemans)
Trombicula dicrura Brennan & Jones

Order CARNIVORA

Family Canidae

Canis familiaris Linnaeus
Domestic Dog, "Perro"
IX: *Amblyomma auricularium* (Conil)
" *cajennense* (Fabricius)
" *oblongoguttatum* Koch
" *ovale* Koch
" sp., N, L
Ixodes affinis Neumann
" *boliviensis* Neumann
Rhipicephalus sanguineus (Latreille)
MA: *Heterodoxus spiniger* (Enderlein)
Trichodectes canis (De Geer)
SI: *Ctenocephalides f. felis* (Bouché)
Juxtapulex echidnophagoides Wagner
Pulex simulans Baker
Rhopalopsyllus australis tupinus Jordan & Rothschild

Family Procyonidae

Procyon cancrivorus (Cuvier)
Crab-eating Raccoon
IX: *Amblyomma naponense* (Packard)
" *oblongoguttatum* Koch
" *ovale* Koch
" sp., N, L

Procyon lotor (Linnaeus)
Raccoon
IX: *Amblyomma ovale* Koch
Ixodes boliviensis Neumann
" *rubidus* Neumann
MA: *Trichodectes octomaculatus* Paine
SI: *Pleochaetis d. dolens* (Jordan & Rothschild)

Nasua nasua (Linnaeus)
Coati, "Gato solo"
LA: *Tur uniscutatus* (Turk)
IX: *Amblyomma auricularium* (Conil)
" *cajennense* (Fabricius)
" *naponense* (Packard)
" *oblongoguttatum* Koch
" *ovale* Koch
" sp., N, L
Ixodes boliviensis Neumann
" *rubidus* Neumann
" sp., N, L
Haemaphysalis juxtakochi Cooley
TR: *Euschoengastia tragulata* Brennan & Jones
Eutrombicula alfreddugesi (Oudemans)
" *goeldii* (Oudemans)
Trombicula dunni Ewing
MA: *Neotrichodectes pallidus* (Piaget)
SI: *Ctenocephalides f. felis* (Bouché)
Dasypsyllus gallinulae perpinnatus (Baker)
Hoplopsyllus glacialis exoticus Jordan & Rothschild
Pleochaetis d. dolens (Jordan & Rothschild)
Polygenis klagesi (Rothschild)
Rhopalopsyllus australis tupinus Jordan & Rothschild
Rhopalopsyllus cacicus saevus Jordan & Rothschild
Rhopalopsyllus lugubris cryptoctenes (Enderlein)

Potos flavus (Schreber)
Kinkajou
IX: *Amblyomma* sp., N

Potos flavus chiriquensis J. A. Allen
MA: *Trichodectes potus* Werneck

Bassaricyon gabbii J. A. Allen
Bushy-tailed Olingo
IX: *Ixodes rubidus* Neumann
SI: *Jellisonia johnsonae* Tipton & Mendez
Pleochaetis d. dolens (Jordan & Rothschild)

Family Mustelidae

Mustela frenata Lichtenstein
Long-tailed Weasel
IX: *Ixodes rubidus* Neumann
MA: *Neotrichodectes minutus* (Paine)?
SI: *Pleochaetis d. dolens* (Jordan & Rothschild)

Eira barbara (Linnaeus)
(=*Tayra barbara* Goldman)
Tayra
IX: *Amblyomma oblongoguttatum* Koch
" *ovale* Koch
Ixodes rubidus Neumann
SI: *Ctenocephalides f. felis* (Bouché)
Rhopalopsyllus australis tupinus Jordan & Rothschild

Galictis allamandi Bell
(=*Grison canaster* Goldman)
Grisón

IX: *Amblyomma ovale* Koch
" sp., N
MA: *Trichodectes galictidis* Werneck
SI: *Rhopalopsyllus australis tupinus* Jordan & Rothschild

Conepatus semistriatus (Boddaert)
Striped Hog-nosed Skunk
IX: *Ixodes rubidus* Neumann
SI: *Ctenocephalides f. felis* (Bouché)
Pulex irritans Linnaeus

Lutra annectens Major
Southern River Otter
IX: *Ixodes* sp., L

Family Felidae

Felis cattus Linnaeus
Domestic Cat, "Gato"
IX: *Amblyomma oblongoguttatum* Koch
" *parvum* Aragão
" sp., N, L
Ixodes boliviensis Neumann
Rhipicephalus sanguineus (Latreille)
MA: *Felicola subrostratus* (Burmeister)
SI: *Ctenocephalides f. felis* (Bouché)

Felis concolor Linnaeus
Mountain Lion, "Puma," "Leon," "Tigre colorado"
IX: *Amblyomma ovale* Koch

Felis onca Linnaeus
Jaguar, "Tigre"
IX: *Amblyomma ovale* Koch
" sp., N
Ixodes affinis Neumann
" *boliviensis* Neumann
SI: *Ctenocephalides f. felis* (Bouché)
Juxtapulex echidnophagoides Wagner

Felis pardalis Linnaeus
Ocelot, "Manigordo"
IX: *Amblyomma ovale* Koch
" sp., N, L
Ixodes affinis Neumann
TR: *Eutrombicula goeldii* (Oudemans)
Odontacarus fieldi Brennan & Jones
Trombicula dunni Ewing

Felis yagouaroundi Geoffroy
Jaguarundi
IX: *Amblyomma ovale* Koch

Order PERISSODACTYLA
Family Tapiridae

Tapirus bairdii (Gill)
Baird's Tapir, "Vaca de Monte," "Macho de Monte"
IX: *Amblyomma cajennense* (Fabricius)
" *coelebs* Neumann
" *oblongoguttatum* Koch
" *ovale* Koch
" *tapirellum* Dunn
" sp., N
Dermacentor latus Cooley
Haemaphysalis juxtakochi Cooley
Ixodes boliviensis Neumann
" *tapirus* Kohls

Family Equidae

Equus caballus Linnaeus
Domestic Horse, "Caballo"
IX: *Amblyomma cajennense* (Fabricius)
" *coelebs* Neumann
" *oblongoguttatum* Koch
" *ovale* Koch
" *tapirellum* Dunn
" sp., N
Anocentor nitens (Neumann)
Boophilus microplus (Canestrini)
MA: *Bovicola equi* (Denny)

Order ARTIODACTYLA
Family Tayassuidae

Tayassu tajacu (Linnaeus)
Collared Peccary, "Saino"
IX: *Amblyomma cajennense* (Fabricius)
" *naponense* (Packard)
" *oblongoguttatum* Koch
" *pecarium* Dunn
" *tapirellum* Dunn
" sp., N, L
Dermacentor imitans Warburton
Haemaphysalis juxtakochi Cooley
TR: *Eutrombicula alfreddugesi* (Oudemans)
Trombicula dunni Ewing
" *pecari* Brennan & Jones

Tayassu tajacu bangsi Goldman
MA: *Macrogyropus dicotylis* (Macalister)

Family Suidae

Sus scrofa Linnaeus
Domestic Hog, "Puerco"
IX: *Anocentor nitens* (Neumann)
Boophilus microplus (Canestrini)
Amblyomma cajennense (Fabricius)
" *coelebs* Neumann
" *oblongoguttatum* Koch
" *ovale* Koch
" *tapirellum* Dunn
" sp., N
AN: *Haematopinus suis* (Linnaeus)
SI: *Tunga penetrans* (Linnaeus)

Family Cervidae

Odocoileus virginianus (Zimmermann)
White-tailed Deer, "Venado"
IX: *Amblyomma cajennense* (Fabricius)
" *oblongoguttatum* Koch
Anocentor nitens (Neumann)
Haemaphysalis juxtakochi Cooley
Ixodes affinis Neumann
" *boliviensis* Neumann
AN: *Solenopotes panamensis* (Ewing)
" *bipinilosus* (Fahrenholz)
HI: *Lipoptena mazamae* Rondani

Mazama americana (Erxleben)
Red Brocket, "Cabra de Monte"
IX: *Amblyomma calcaratum* Neumann
Amblyomma oblongoguttatum Koch
" sp., N
Haemaphysalis juxtakochi Cooley
Ixodes affinis Neumann
TR: *Eutrombicula batatas* (Linnaeus)
HI: *Lipoptena mazamae* Rondani

Mazama sp.
HI: *Lipoptena mazamae* Rondani

Family Bovidae

Bos taurus Linnaeus
Domestic Cattle, "Ganado"
IX: *Amblyomma cajennense* (Fabricius)
" *oblongoguttatum* Koch
" *parvum* Aragão
" sp., N, L
Anocentor nitens (Neumann)
Boophilus microplus (Canestrini)
Ixodes boliviensis Neumann
MA: *Bovicola bovis* (Linnaeus)
AN: *Haematopinus eurysternus* (Nitsch)
(? *H. quadripertusus* Fahrenholz)

Capra hircus Linnaeus
Domestic Goat
IX: *Amblyomma cajennense* (Fabricius)
" *oblongoguttatum* Koch
Boophilus microplus (Canestrini)
MA: *Bovicola limbatus* (Gervais)

Ovis aries Linnaeus
Domestic Sheep
HI: *Melophagus ovinus* (Linnaeus)

References

Eisenmann, Eugene

1955. The species of Middle American birds. Trans. Linn. Soc. New York, 7. vi + 128 pp.

Hall, E. Raymond, AND Kelson, Keith R.

1959. The mammals of North America. Ronald Press., N.Y. 2 vols. 1373 pp., 1215 illus.

Handley, Charles O., Jr.

1966. Checklist of the mammals of Panama. *In* Ectoparasites of Panama, pp. 753–795.